



LCD TV

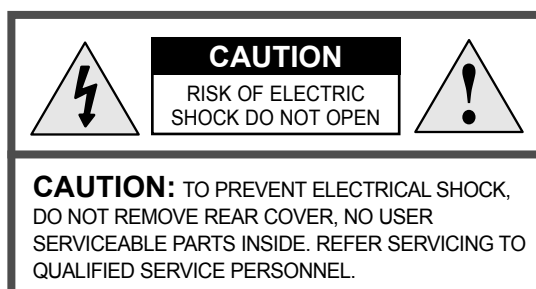
LW17N23W

Owner's Instructions

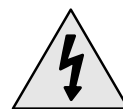
Before operating the unit,
please read this manual thoroughly,
and retain it for future reference.

ON-SCREEN MENUS
PC DISPLAY
PICTURE IN PICTURE (PIP)
TELETEXT

Caution




The lightning flash and arrow head within the triangle is a warning sign alerting you of "dangerous voltage" inside the product.



The exclamation point within the triangle is a warning sign alerting you of important instructions accompanying the product.



WARNING: TO PREVENT DAMAGE WHICH MAY RESULT IN FIRE OR SHOCK HAZARD, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

 *The main voltage is indicated on the rear of your set and the frequency is 50 or 60 Hz.*

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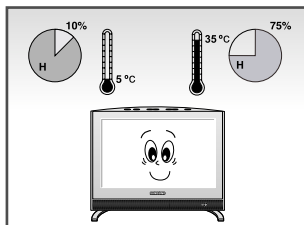
Products with the CE Marking comply with both the EMC Directive (89/336/EEC), (92/31/EEC), (93/68/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.

Compliance with these directives implies conformity to the following European Norms:

- EN55022:1998+A1:2000 - Radio Frequency Interference
- EN55024:1998 - Electromagnetic Immunity
- EN55013:1990+A12:1994+A13:1996+A14:1999 - Radio Frequency Interference
- EN55020:1994+A11:1996+A12/A13/A14:1999 - Electromagnetic Immunity
- EN61000-3-2:1995+A1/A2:1998 - Power Line Harmonics
- EN61000-3-3:1995 - Voltage Fluctuations
- EN60065:1997 or EN60950:1998 - Product Safety

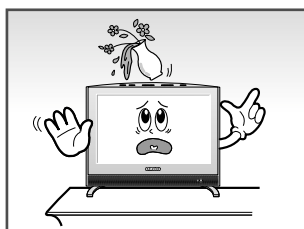
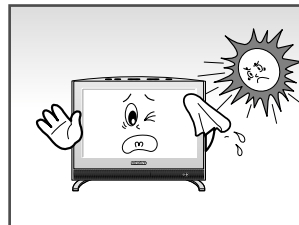
Safety Instructions

These illustrations represent precautions concerning your set.



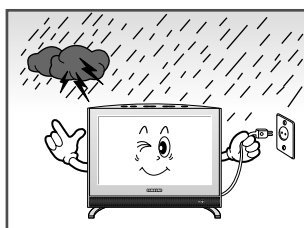
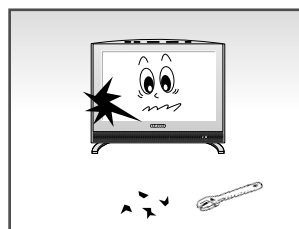
◀ Do not expose your set to extreme temperature or humidity conditions.

Do not expose your set to direct sunlight. ▶



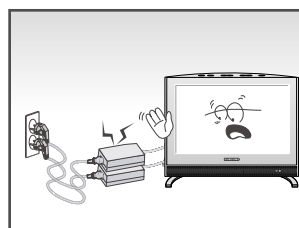
◀ Do not expose your set to liquids.

If your set is broken, ▶
do not try to repair it yourself.
Contact qualified service personnel.



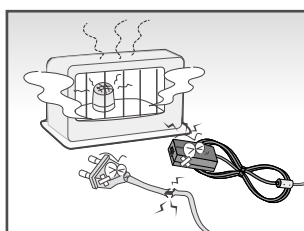
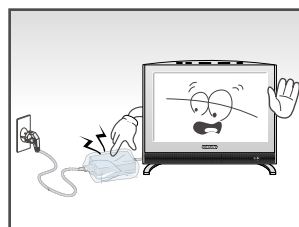
◀ During storm conditions (especially when there is lightning) unplug your set from the mains socket and aerial.

Keep all power adaptors apart. ▶
Possible fire hazard.



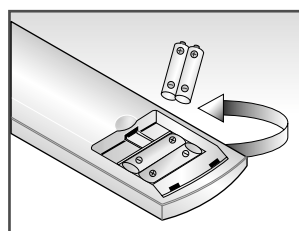
◀ Always keep the power adaptor in a well-ventilated area.

Remove and discard the ▶
plastic sheet cover.
Possible fire hazard.



◀ Keep the power adaptor away from any other heater. Possible fire hazard.

If the remote control is not used for a long ▶
period of time, remove the batteries and
store it in a cool, dry place.



THIS DEVICE IS NOT FOR USE IN INDUSTRIAL ENVIRONMENTS

Contents

◆ FOREWORD	
■ Caution	2
■ Safety Instructions	3
◆ CONNECTING AND PREPARING YOUR TV	
■ Viewing the Control Panel	6
■ Viewing the Connection Panel	7
– Connecting an Aerial or Cable Television Network	8
– Connecting a Set-Top Box, VCR, or DVD	8
– Connecting a Computer	8
– Connecting External A/V Devices	9
– Connecting Headphones	9
– Kensington Slot	9
■ Viewing Pictures From External Sources	10
■ Inserting the Batteries in the Remote Control	11
■ Viewing the Remote Control (All Functions Except Teletext)	12
■ Viewing the Remote Control (Teletext Functions)	13
■ Switching On and Off	14
■ Placing in Standby Mode	14
■ Becoming Familiar with the Remote Control	15
■ Plug & Play	16
■ Selecting TV Mode or an Input Source	18
■ Editing an Input Source Name	19
■ Choosing Your Language	20
◆ SETTING THE CHANNELS	
■ Storing Channels Automatically	21
■ Storing Channels Manually	22
■ Editing the Channels	24
■ Sorting the Stored Channels	25
■ Giving Channels Names	26
■ Fine Tuning Channel Reception	27
◆ SETTING THE PICTURE	
■ Changing the Picture Standard	28
■ Adjusting the Custom Picture	29
■ Adjusting the Screen Background Colour	30
■ Selecting the Picture Format	31
■ Freezing the Current Picture	31
■ Viewing the Picture In Picture (PIP)	32
◆ SETTING THE SOUND	
■ Changing the Sound Standard	34
■ Adjusting the Custom Sound	35
■ Selecting Wow Surround	36
■ Selecting Auto Volume Control	37
■ Selecting the Sound Mode	37
■ Adjusting Your Headphone Preferences	38
■ Selecting a Sound Mode for the Sub-Screen	39

Contents

◆ SETTING THE TIME	
■ Setting the Clock	40
■ Switching Off Automatically	41
■ Switching the Television On and Off Automatically	42
◆ USING THE VARIOUS FUNCTIONS	
■ Setting the Blue Screen Mode	43
■ Displaying Information	43
◆ USING THE PC FUNCTIONS	
■ Setting Up Your PC Software	44
■ Coarse and Fine Tuning of the Image	45
■ Changing the Image Position	46
■ Initializing the Image Settings	47
■ Adjusting the PC Screen Automatically	48
◆ USING THE TELETEXT FEATURE	
■ Teletext Feature	49
■ Displaying the Teletext Information	50
■ Selecting a Page by Number	51
■ Using FLOF to Select a Page	52
■ Storing Teletext Pages	53
◆ RECOMMENDATIONS FOR USE	
■ Troubleshooting: Before Contacting Service Personnel	54
■ Power Saver	55
■ Technical and Environmental Specifications	56
■ Display Modes	57
■ Maintenance of Your Television	58
■ How to connect the cables and stand base	59
■ Installing the Wall Mount Kit (Sold separately)	60
■ Wiring the Mains Power Supply Plug (UK Only)	62

Symbols



Press

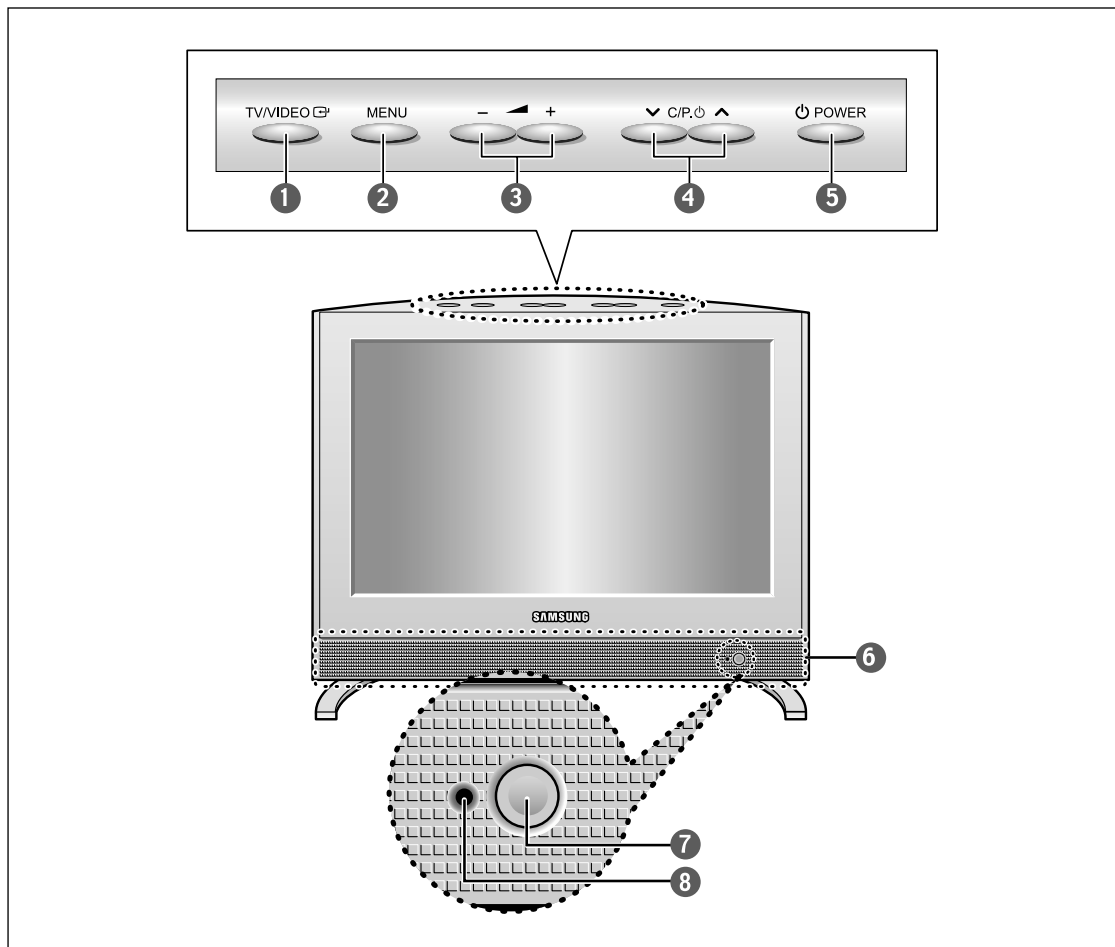


Important



Note

Viewing the Control Panel



① TV/VIDEO

Displays a menu of all of the available input sources (TV - AV1 - AV2 - AV3 - S-Video - PC).

② MENU

Opens the on-screen menu.

③ - ▲ +

Moves the selector left or right on the OSD.
Increases or decreases the level of audio volume and the values of the selected function.

④ ∇ C/P ∅ ▲

Moves the selector up or down on the OSD.
Increases or decreases the channel number.

⑤ POWER

Turns ON/OFF your set.

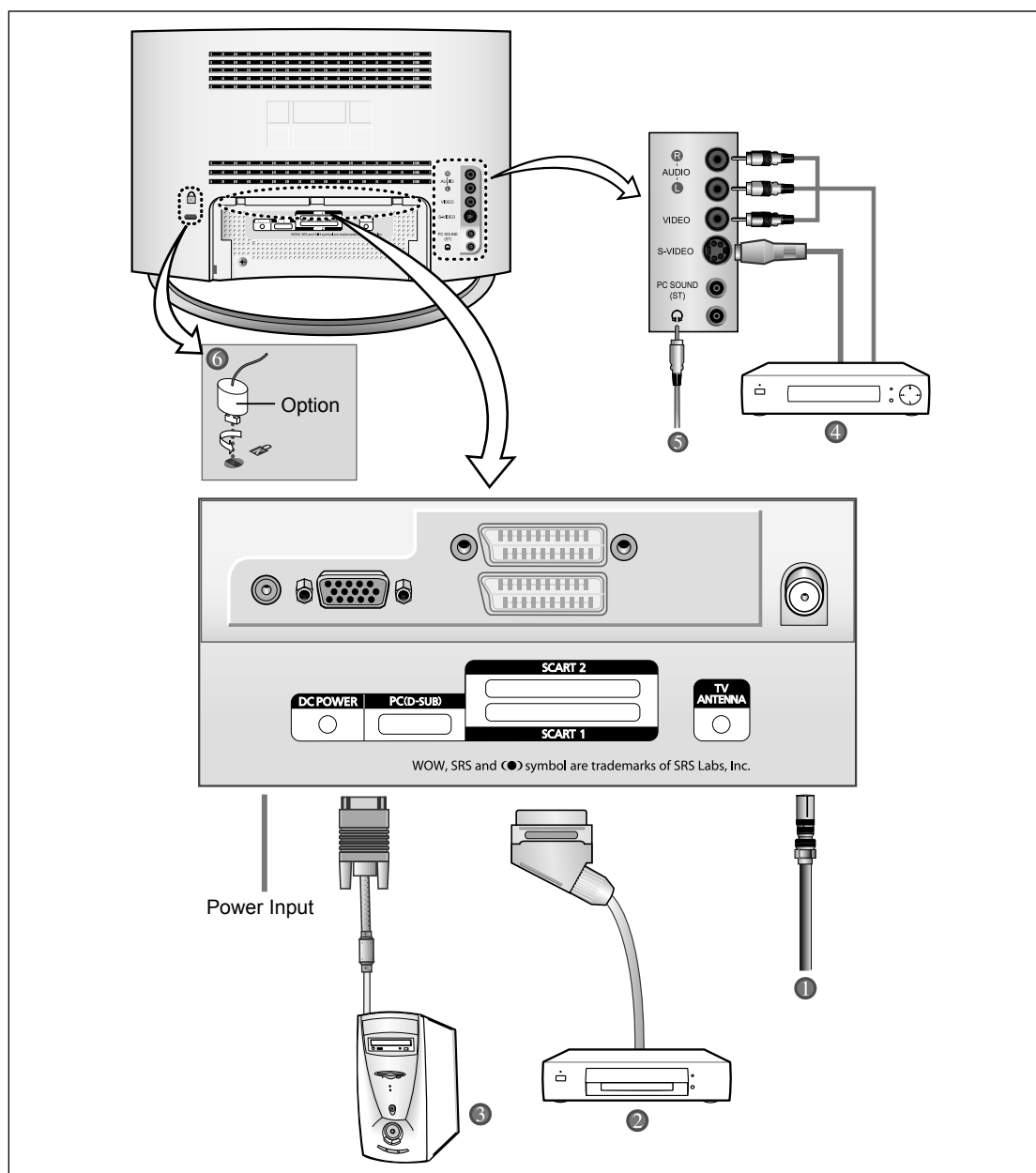
⑥ SPEAKER


⑦ REMOTE CONTROL SENSOR

⑧ POWER INDICATOR

Lights up when you turn the power off.

Viewing the Connection Panel



 Whenever you connect an audio or video system to your set, ensure that all elements are switched off. Refer to the documentation supplied with your equipment for detailed connection instructions and associated safety precautions.

Viewing the Connection Panel

❶ **Connecting an Aerial or Cable Television Network (depending on the model)**

To view television channels correctly, a signal must be received by the set from one of the following sources:

- An outdoor aerial
- A cable television network
- A satellite network

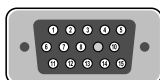
❷ **Connecting a Set-Top Box, VCR, or DVD**

- Connect the VCR, or DVD SCART cable to the SCART connector of the VCR, or DVD.
- If you wish to connect both the Set-Top Box and VCR (or DVD), you should connect the Set-Top Box to the VCR (or DVD) and connect the VCR (or DVD) to your set.

❸ **Connecting a Computer**

- Connect the 15 Pin D-SUB connector to the PC video connector.
- Connect the stereo audio cable to the "Audio (ST)" jack on the rear of your set and the other end to the "Audio Out" jack of the sound card on your computer.

➤ 15 Pin D-SUB connector



Pin	Separate H/V	Composite H/V
1	Red (R)	Red (R)
2	Green (G)	Green (G)
3	Blue (B)	Blue (B)
4	Grounding	Grounding
5	Grounding (DDC return)	Grounding (DDC return)
6	Grounding - Red (R)	Grounding - Red (R)
7	Grounding - Green (G)	Grounding - Green (G)
8	Grounding - Blue (B)	Grounding - Blue (B)
9	No connection	No connection
10	Grounding - Sync. / Self test	Grounding - Sync. / Self test
11	Grounding	Grounding
12	DDC - SDA (Data)	DDC - SDA (Data)
13	Horizontal Sync.	Horizontal/Vertical Sync.
14	Vertical Sync.	Not used
15	DDC - SCL (Clock)	DDC - SCL (Clock)

Viewing the Connection Panel

④ Connecting External A/V Devices

- Connect RCA or S-VIDEO cables to an appropriate external A/V device such as a VCR, DVD, or Camcorder.
- Connect RCA audio cables to "AUDIO (L)" and "AUDIO (R)" on the rear of your set and the other ends to corresponding audio out connectors on the A/V device.
- Headphones may be connected to the headphone output (⑤) on the rear of your set.
While the headphones are connected, the sound from the built-in speakers will be disabled.

⑤ Connecting Headphones

- Plug a set of headphones into the 3.5mm mini-jack socket on the rear of the set.

⑥ Kensington Slot

- This television has been designed to apply a burglarproof lock.

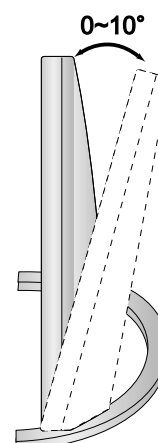
➤ Retractable Stand

Tilt the screen until you feel comfortable.

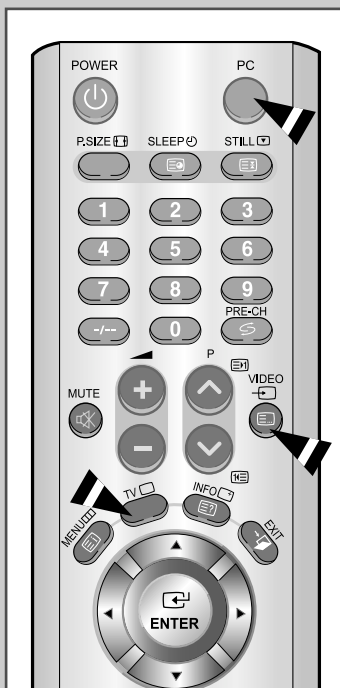
The maximum tilt angle is 10 degrees in the backward direction.

Please do not tilt the television beyond the specified range.

Using excessive force to tilt the television beyond the specified range may cause permanent damage to the mechanical part of the stand.



Viewing Pictures From External Sources



Once you have connected up your various audio and video systems, you can view the different sources by selecting the appropriate input.

- 1 Check that all the necessary connections have been made (refer to pages 8 and 9 for further details).
- 2
 - ◆ PC button...
Press the PC button to choose PC mode.
 - ◆ Video button...
Press the Video button to choose Video mode.
The input sources are displayed in the following order:
AV1 - AV2 - AV3 - S-Video.
 - ◆ TV button...
Press the TV button to choose TV mode.

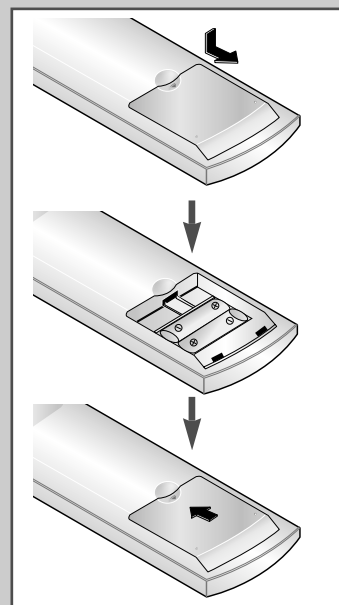
Inserting the Batteries in the Remote Control

You must insert or replace the batteries in the remote control when you:

- ◆ *Purchase your set*
- ◆ *Find that the remote control is no longer operating correctly*

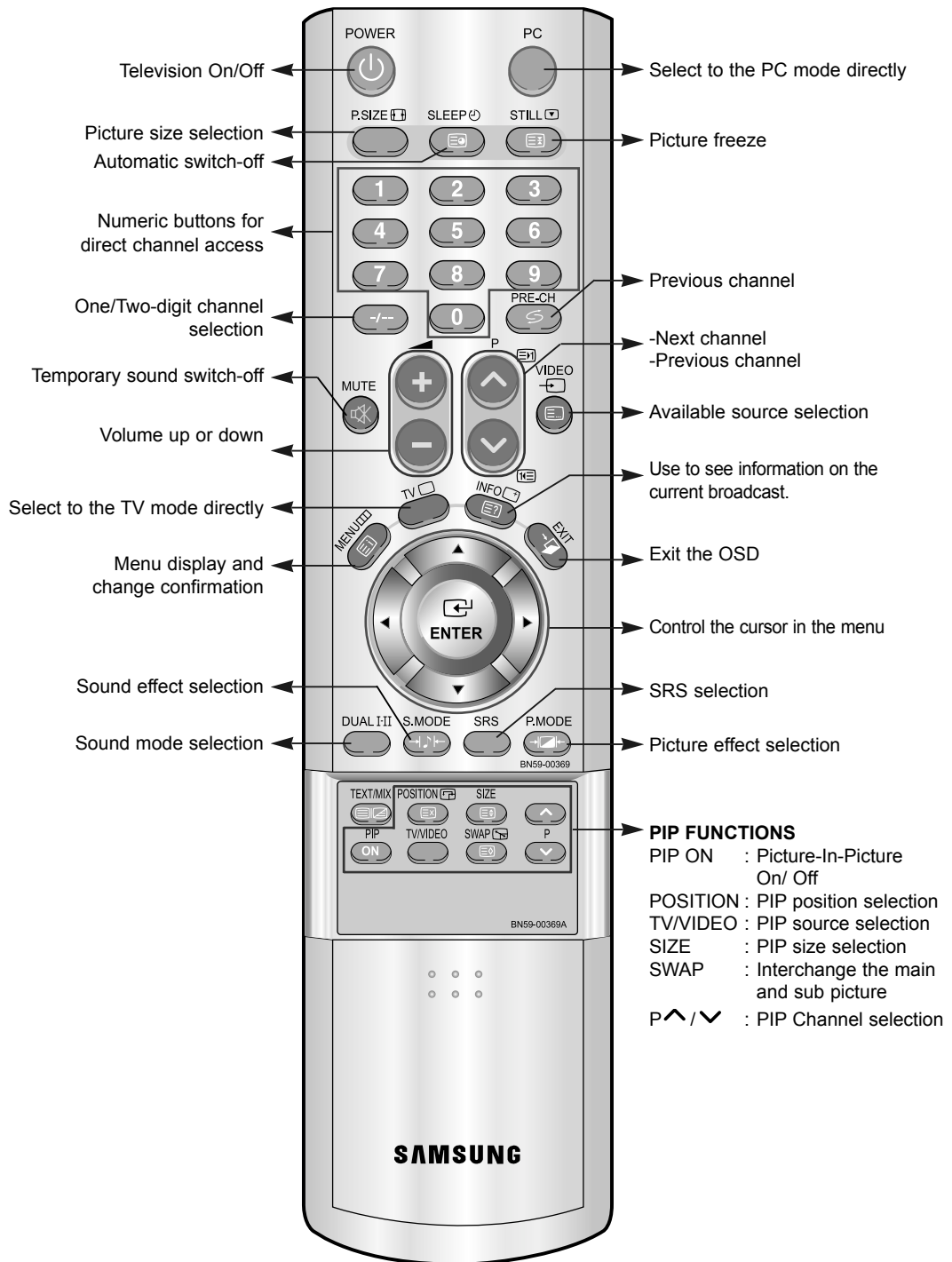
- 1 Remove the cover on the rear of the remote control by pressing the symbol downwards and then pulling firmly to remove it.
- 2 Install two **AAA** size batteries.
 - ◆ + on the battery against + on the remote control
 - ◆ - on the battery against - on the remote control
- 3 Replace the cover by aligning it with the base of the remote control and pressing it back into place.

➤ Do not mix battery types, i.e. alkaline and manganese.



Viewing the Remote Control

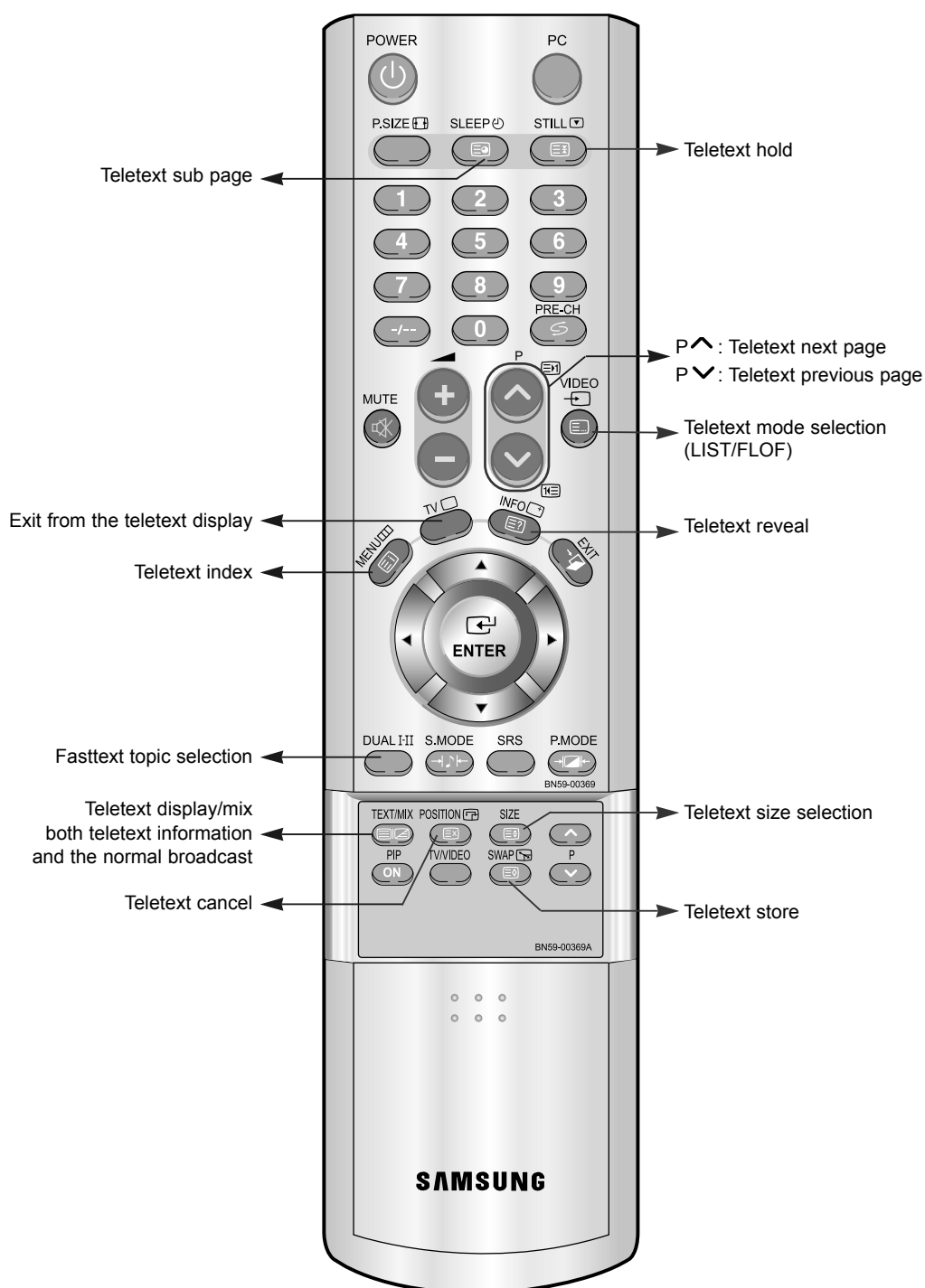
(All Functions Except Teletext)



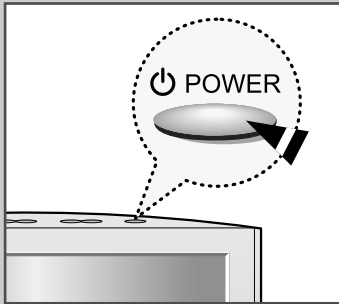
➤ The performance of the remote control may be affected by bright light.

Viewing the Remote Control

(Teletext Functions)



Switching On and Off

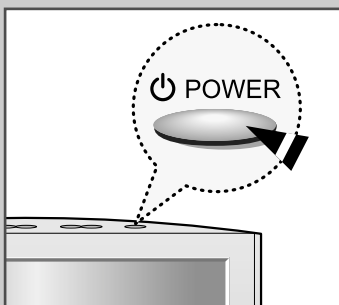


The mains lead is attached to the rear of your set.

➤ If you purchased this set in the United Kingdom, refer to page **62** for further instructions on plug wiring.

- 1 Plug the mains lead into an appropriate socket.
Result: When the adaptor is plugged in, the LED turns red.
- 2 Press the **POWER** button to switch on.
- 3 To switch off, press the **POWER** button again.

Placing in Standby Mode



Your set can be placed in Standby mode in order to reduce the power consumption.

The Standby mode can be useful when you wish to interrupt viewing temporarily (during a meal, for example).

- 1 Press the **POWER** button.
- 2 To switch back on, simply press the **POWER** button again or a numeric button.

➤ Do not leave your set in Standby mode for long periods of time (when you are away on holiday, for example). Turn off by pressing the **POWER** button. It is best to unplug the set from the mains and aerial.

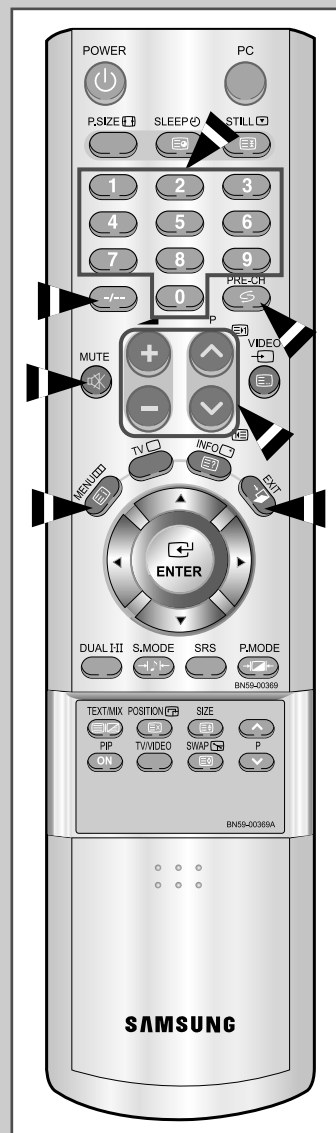
Becoming Familiar with the Remote Control

The remote control is used mainly to:

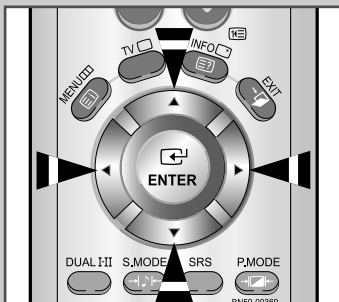
- ◆ Change channels and adjust the volume
- ◆ Set up your set using the on-screen menu system

The following table presents the most frequently used buttons and their functions.

Button	Viewing Function	Menu Function
P ▲	Used to display the next stored channel.	-
P ▼	Used to display the previous stored channel.	-
PRE-CH	Used to switch repeatedly between the last two channels displayed. (PRE-CH; Previous Channel)	
0 ~ 9	Used to display the corresponding channels.	
-/--	Used to select a channel numbered ten or over. Press this button, and the "--" symbol is displayed. Enter the two-digit channel number.	
+	Used to increase the volume.	-
-	Used to decrease the volume.	-
MUTE 🔇	Used to switch the sound off temporarily. ➤ To turn the sound back on, press this button again, or press the ▲+ or ▼- button.	
MENU ☐☐☐	Used to display the on-screen menu system.	Used to return to the previous menu or normal viewing.
EXIT 🔍	Used to exit the menu system and return directly to normal viewing.	
ENTER ⬇	▶	Display a submenu containing selections for the current menu option.
▲ ▼	▶	Search backwards/forwards manually for channels.
◀ ▶	▶	Increase/decrease a menu option value.



Plug & Play

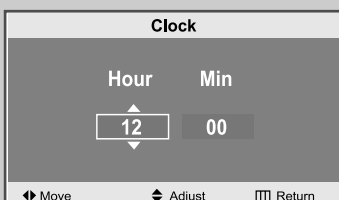
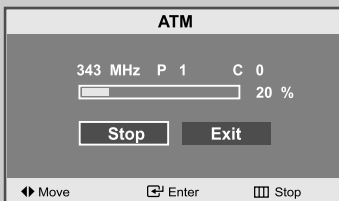


Plug & Play



Plug & Play

Antenna Input Check



Enjoy your watching

English-16

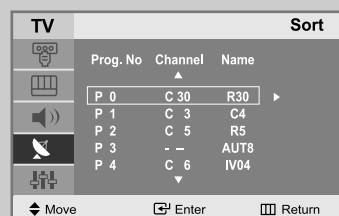
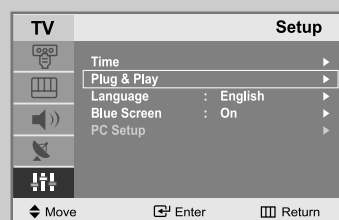
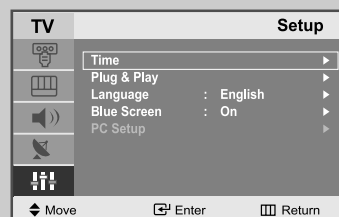
When the set is initially powered ON, you are automatically presented with a series of basic customer settings. The following settings are available.

- 1 If the set is in standby mode, press the **POWER** button on the remote control.
Result: The message **Plug & Play** is displayed. It appears for a little while, and then the **Language** menu is automatically displayed.
- 2 Select the appropriate **Language** by pressing the **▲** or **▼** button.
➤ The available languages are listed. You can choose one of **18** Languages.
- 3 Press the **ENTER** button to confirm your choice.
Result: The message **Antenna Input Check** is displayed with **OK** selected.
- 4 Press the **ENTER** button.
- 5 Select your **Country** by pressing the **▲** or **▼** button. Press the **ENTER** button.
Result: The country menu is displayed:
Belgie - Deutschland - Espania - France - Italia - Nederland - Schweiz - Sverige - UK - East Europe - Others
- 6 Select the **Hour** or **Min** by pressing the **◀** or **▶** button. Set the **Hour** or **Min** by pressing the **▲** or **▼** button. (Refer to "Setting the Clock" on page 40)
- 7 Press the **MENU** button to confirm your setting.
Result: The message **Enjoy your watching** is displayed, and then the channel which has been stored will be activated.

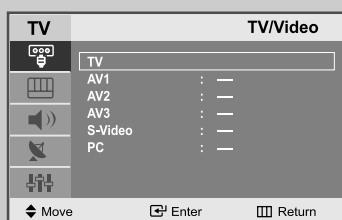
Plug & Play

If you want to reset this feature...

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** button.
Result: The message **Plug & Play** is displayed.
- 4 Press the **▲** or **▼** button to select the **Plug & Play**.
Press the **ENTER** button.
Result: The message **Plug & Play** is displayed.
- 5 For further details on how to set up this feature,
refer to page 16 and 25.
The Sort menu is displayed after the Plug & Play ends.



Selecting TV Mode or an Input Source



You can choose TV mode or change to an input source connected to the TV set. Use this button to choose an input source that you would like to watch.

- 1 Press the **MENU** button.

Result: The main menu is displayed.


- 2 Press the **▲** or **▼** button to select the **Input**.

Result: The options available in the **Input** group are displayed.

- 3 Press the **ENTER**  button.

- 4 Press the **ENTER**  button.

Result: The **TV/Video** is selected.

- 5 Press the **▲** or **▼** button to move to the input source that you wish to choose.
Press the **ENTER**  button.

Result: The input source changes to the one you have chosen.

Editing an Input Source Name

Entering the names of the input source devices connected to the input ports on the TV set allows you to find and choose an input source that you would like to watch in a quick and convenient manner.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Input**.

Result: The options available in the **Input** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select the **Edit Name**.
Press the **ENTER** button.

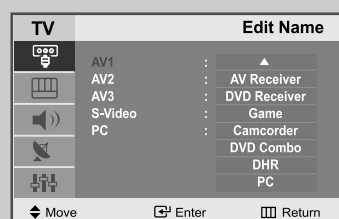
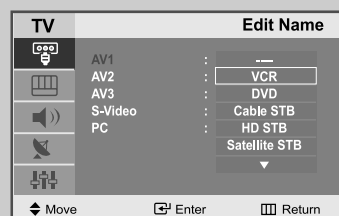
- 5 Press the **▲** or **▼** button to move to the input source that you wish to edit.
Press the **ENTER** button.

Result: The following options are available:
AV 1 - AV 2 - AV 3 - S-Video - PC

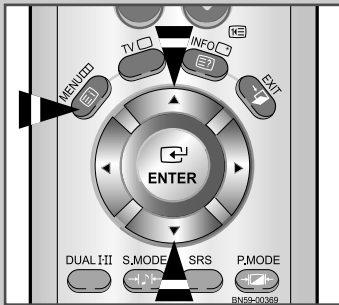
- 6 Select the required device by pressing the **▲** or **▼** repeatedly.

Result: The following options are available:
---- - VCR - DVD - Cable STB - HD STB - Satellite STB - AV Receiver - DVD Receiver - Game - Camcorder - DVD Combo - DHR - PC.

- 7 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



Choosing Your Language



When you start using your set for the first time, you must select the language which will be used for displaying menus and indicators.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Setup**.

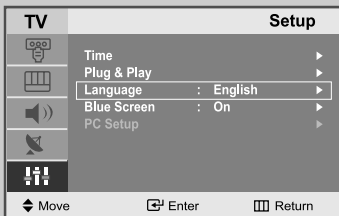
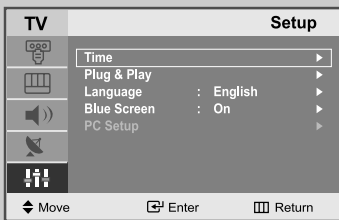
Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select the **Language**.
Press the **ENTER** button.

- 5 Select a particular **Language** by pressing the **▲** or **▼** button repeatedly.

- 6 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.



Storing Channels Automatically

You can scan for the frequency ranges available to you (and availability depends on your country). Automatically allocated programme numbers may not correspond to actual or desired programme numbers.

However you can sort numbers manually and clear any channels you do not wish to watch.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select **ATM**.
Press the **ENTER** button.

Result: The **Start** is selected.

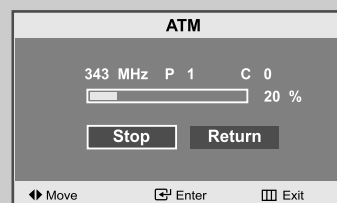
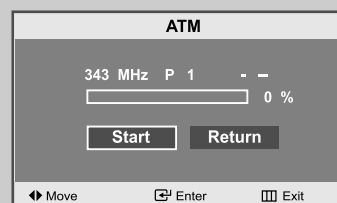
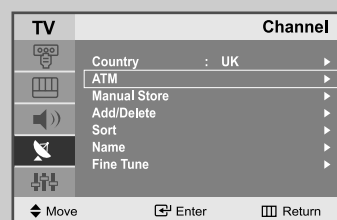
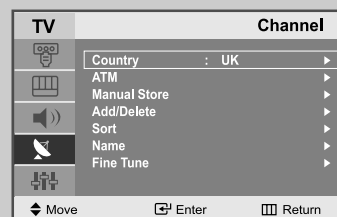
- 5 Press the **ENTER** button to search the channels.
The sub menu is changed from **Start** to **Stop** with channel search started.

Result: The search will end automatically.

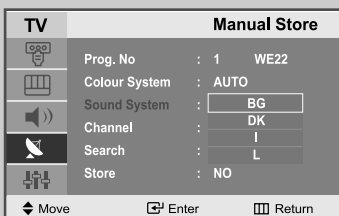
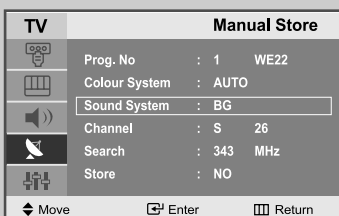
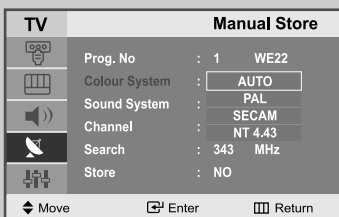
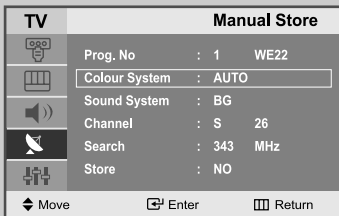
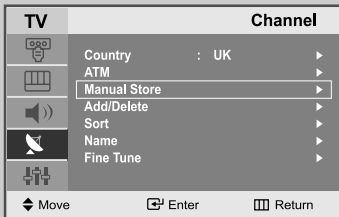
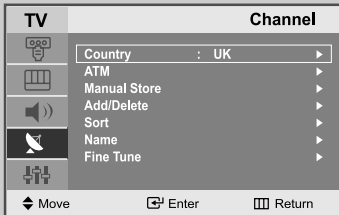
Channels are sorted and stored in an order which reflects their position in the frequency range, (with lowest first and highest last). The programme originally selected is then displayed.

- To return to the previous menu, press **◀** or **▶** button to select **Return** and then press **ENTER** button.
- To stop the search before it has finished, press the **ENTER** button to search the channels.

- 6 When the channels have been stored, you can:
 - ◆ Add or delete the channels (refer to page 24)
 - ◆ Sort them in the order required (refer to page 25)
 - ◆ Assign a name to the stored channels (refer to page 26)
 - ◆ Fine tune channel reception if necessary (refer to page 27)



Storing Channels Manually



You can store up to 100 channels, including those received via cable networks.

When storing channels manually, you can choose:

- ◆ Whether or not to store each of the channels found
- ◆ The programme number of each stored channel which you wish to identify

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select the **Manual Store**. Press the **ENTER** button.

Result: The options available in the **Manual Store** group are displayed with the **Prog. No** selected.

- 5 Press the **▲** or **▼** button to select **Colour System**.

Press the **ENTER** button.

Select the **Colour System** required by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.

Result: The colour standards are displayed in the following order:
AUTO - PAL - SECAM - NT 4.43

- 6 Press the **▲** or **▼** button to select **Sound System**.




Press the **ENTER** button.



Select the **Sound System** required by pressing the **▲** or **▼** button repeatedly and then press the **ENTER** button.



Result: The sound standards are displayed in the following order:
BG - DK - I - L

- 7 For all the channels to move to the required channel numbers, repeat steps 5 to 6 after selecting **Prog. No** by pressing the **▲** or **▼** button.










Storing Channels Manually










- 8 If you know the channel number to be stored,
 - ◆ Press the ▲ or ▼ button to select the **Channel**.
Press the **ENTER**  button.
 - ◆ Select **C** (Air channel) or **S** (Cable channel) by pressing the ▲ or ▼ button and then press the **ENTER**  button.
 - ◆ Select the required number by pressing the ▲ or ▼ button and then press the **ENTER**  button.










➤ If there is normal sound or no sound, re-select the sound system required.
- 9 If you do not know the channel numbers, press the ▲ or ▼ button to select **Search**.
Press the **ENTER**  button.
Start the **Search** by pressing the ▲ or ▼ button.
Press the **ENTER**  button.

Result: The tuner scans the frequency range until the first channel or the channel that you selected is received on your screen.
- 10 Press the ▲ or ▼ button to select **Store**.
Press the **ENTER**  button.
Select **YES** by pressing the ▲ or ▼ button.
Press the **ENTER**  button.

Result: The channel and associated programme number are stored.
- 11 Repeat Steps 8 to 10 for each channel to be stored.

TV	Manual Store	
	Prog. No	: 1 WE22
	Colour System	: AUTO
	Sound System	: BG
	Channel	: S 26
	Search	: 343 MHz
	Store	: NO
 Move  Enter  Return		

TV	Manual Store	
	Prog. No	: 1 ARD
	Colour System	: AUTO
	Sound System	: BG
	Channel	: S 26
	Search	: 343 MHz
	Store	: NO
 Move  Enter  Return		





TV	Manual Store	
	Prog. No	: 1 ARD
	Colour System	: AUTO
	Sound System	: BG
	Channel	: S 26
	Search	: 343 MHz
	Store	: NO
 Move  Enter  Return		

Editing the Channels



You can exclude any channels of your choice from the channels you have scanned. When you scan through the stored channels, those you have chosen to skip are not displayed.

All channels that you do not specifically choose to skip are displayed during scanning.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Add/Delete**. Press the **ENTER**  button.
Result: The state of the current channel is displayed.
- 5 Press the **^** or **v** button to select the channel that you wish to **Add** or **Delete**.
Result: If the channel that you wish to edit is not in the memory, Add is selected and displayed. Otherwise, if the channel that you wish to edit is in the memory, Delete is selected and displayed.
- 6 Press the **ENTER**  button to **Add** or **Delete** the channel.
- 7 To return to the previous menu, select **Return** by pressing the **◀** or **▶** button and then press the **ENTER**  button.
- 8 Repeat Step 5 for each channel to be added or erased.

Sorting the Stored Channels

You can exchange the numbers of two channels, in order to:

- ◆ *Modify the numeric order in which the channels have been automatically stored.*
- ◆ *Assign easily remembered numbers to the channels that you watch most often.*

- 1 Press the **MENU** button.

Result: The main menu is displayed.


- 2 Press the **▲** or **▼** button to select the **Channel**.

Result: The options available in the **Channel** group are displayed.


- 3 Press the **ENTER**  button.

- 4 Press the **▲** or **▼** button to select **Sort**.
Press the **ENTER**  button.

Result: The current **Prog. No**, **Channel** and **Name** are displayed.

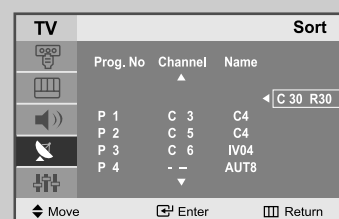
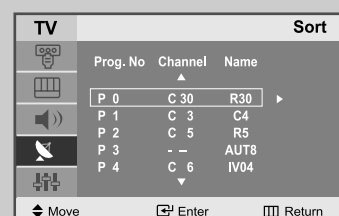
- 5 Select the channel number that you wish to change by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER**  button.

Result: The selected **Channel number** and **Name** are moved to the right side.

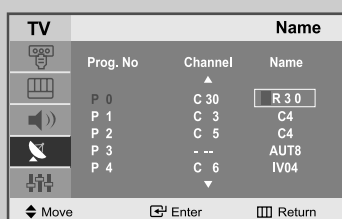
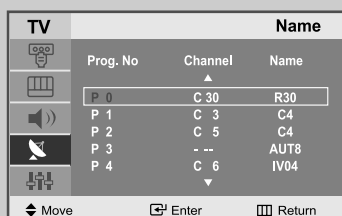
- 6 Press the **▲** or **▼** button to move to the position which you would like to change and then press the **ENTER**  button.

Result: The selected channel is exchanged with the one previously stored to the chosen number.

- 7 Repeat step 5 to 6 for another channel to sort again.



Giving Channels Names



If channel name information is broadcast when you store the channels either manually or automatically, the names are assigned to the channels directly. You can however change these names or assign new names as required.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select the **Name**.
Press the **ENTER** button.
Result: The current **Prog. No**, **Channel** and **Name** are displayed.
- 5 If necessary, select the channel to be assigned to a new **Name** by pressing the **▲** or **▼** button.
Press the **ENTER** button.
Result: The selection bar is displayed around the name box.
- 6






To...	Then...
Select a letter, number or symbol	Press the ▲ or ▼ button
Move on to the next letter	Press the ▶ button
Move back to the previous letter	Press the ◀ button
Confirm the name	Press the ENTER button

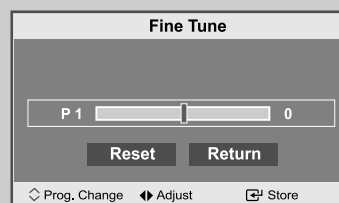
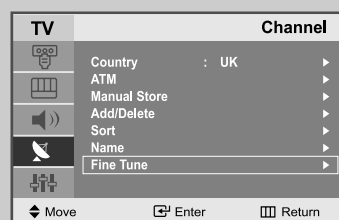
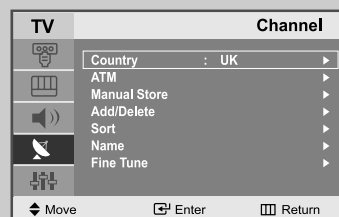
➤ The characters available are :

 - ◆ Letters of the alphabet (A~Z)
 - ◆ Numbers (0~9)
 - ◆ Special characters (space, **_**, **-**, *****)
- 7 Repeat Steps 5 to 6 for each channel to be assigned to a new name.
- 8 When you have finished entering the name, press the **ENTER** button to confirm the name.

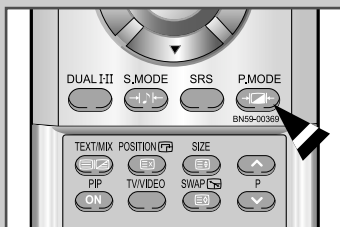
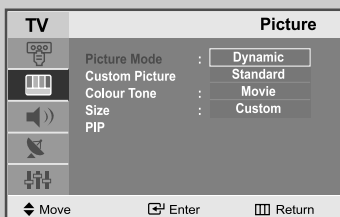
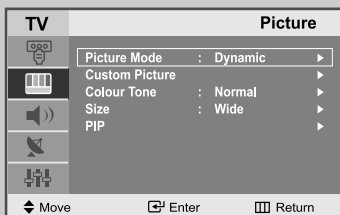
Fine Tuning Channel Reception

If the reception is clear, you do not have to fine-tune the channel, as this is done automatically during the search and store operation. If however the signal is weak or distorted, you may have to fine-tune the channel manually.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Channel**.
Result: The options available in the **Channel** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Fine Tune**.
Press the **ENTER**  button.
- 5 Press the **^** or **v** button to select the channel that you wish to **Fine Tune**.
- 6 Press **◀** or **▶** button until you reach the setting to obtain a sharp and clear picture and good sound quality.
To store the setting, press the **ENTER**  button.
- 7 To reset the fine tuning, select **Reset** by pressing the **▲** or **▼** button and then press the **ENTER**  button.
To return to the previous menu, select **Return** by pressing the **◀** or **▶** button and press the **ENTER**  button.



Changing the Picture Standard



You can select the type of picture which best corresponds to your viewing requirements.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **ENTER** button.

Result: The **Picture Mode** is selected.




- 5 Select the required picture effect by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER** button.

Result: The following picture effects are available:
Dynamic - Standard - Movie - Custom

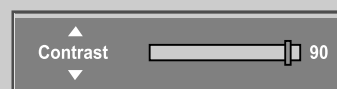
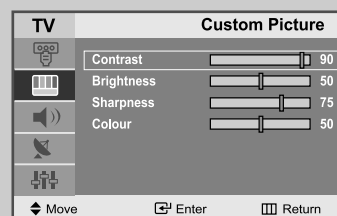
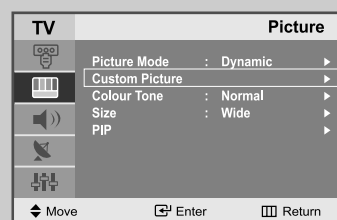
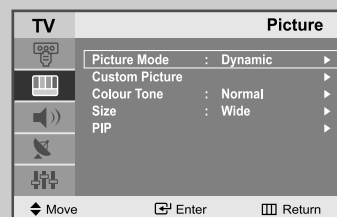
- You can also set these options simply by pressing the **P.MODE** (Picture Mode) button.

Adjusting the Custom Picture

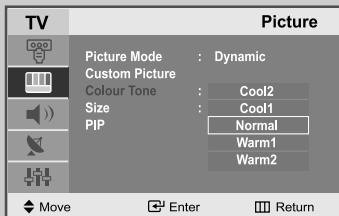
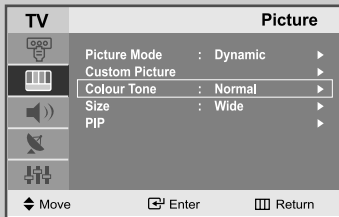
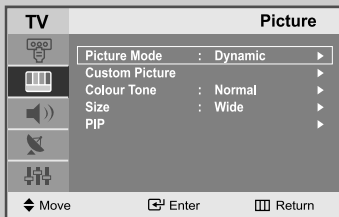
Your set has several settings which allow you to control picture quality.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Custom Picture**.
Press the **ENTER**  button.
- 5 Select the option (**Contrast, Brightness, Sharpness, Colour or Tint-NTSC only**) to be adjusted by pressing the **▲** or **▼** button.
Press the **ENTER**  button.
Result: The horizontal bar is displayed.
- 6 Press the **◀** or **▶** button to reach the required setting.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



➤ If you make any changes to these settings, the picture standard is automatically switched to **Custom**.



Adjusting the Screen Background Colour






You can change the screen background colour according to your preference.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Colour Tone**.
Press the **ENTER**  button.
Result: The following options are available:
Cool 2 - Cool 1 - Normal - Warm 1 - Warm 2
- 5 When you are satisfied with your choice, press the **EXIT** button to return to normal viewing.

Selecting the Picture Format

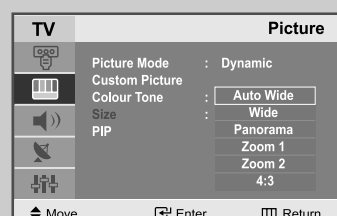
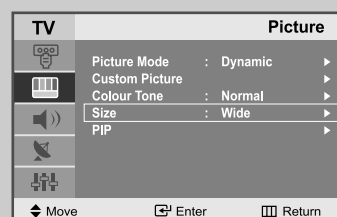
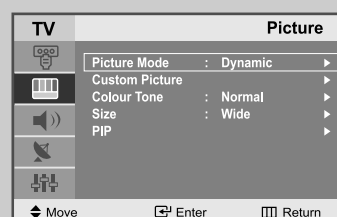
You can select the picture format which best corresponds to your viewing requirements.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Picture**.
Result: The options available in the **Picture** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Size**.
Press the **ENTER**  button.
- 5 Select the required picture format by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER**  button.

Result: The following options are available:

Auto Wide - Wide - Panorama - Zoom 1 - Zoom 2 - 4:3

- You can also set these options simply by pressing the **P.SIZE** (Picture SIZE) button.
- ◆ This feature does not work when the PIP (Double Window) feature is active.



Auto Wide

Freezing the Current Picture

Press the "STILL" button on the remote control to freeze the picture on a given frame.

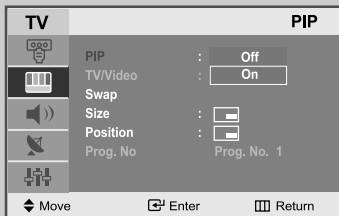
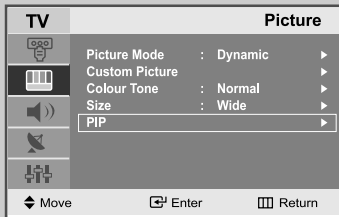
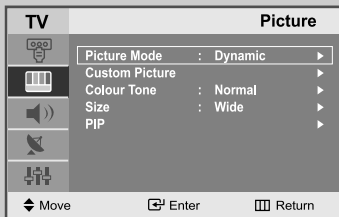
To return to normal viewing, press the "STILL" button again.

- Not Available in PC mode.

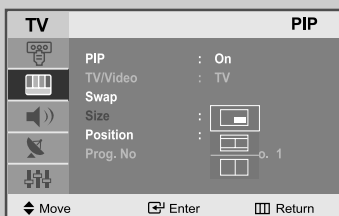
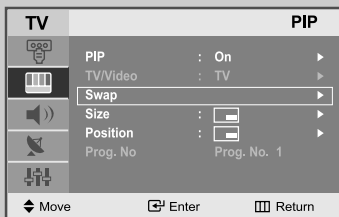
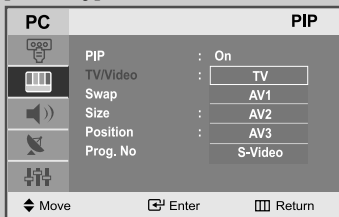


English-31

Viewing the Picture In Picture (PIP)



[PC Only]



You can display a sub picture within the main picture of a set programme or video input. In this way you can watch or monitor the set programme or video input from any connected equipment while watching the set or other video input.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Picture**.

Result: The options available in the **Picture** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **▲** or **▼** button to select the **PIP**.
Press the **ENTER** button.

Result: The options available in the **PIP** menu are displayed.

- 5 Press the **ENTER** button.

- 6 Select **On** by pressing the **▲** or **▼** button.
Press the **ENTER** button.

- 7 **▶▶ PC Only....**

Press the **▲** or **▼** button to select **TV/Video**.

Press the **ENTER** button.

Select the source of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER** button.

Result: The sources are displayed in the following order:

TV - AV1 - AV2 - AV3 - S-Video

➤ PC Only

“TV/Video” and “Prog.No” are inactive and not available in TV mode. However, they become active and available in PC mode.

- 8 To swap the main picture and the sub picture, select the **Swap** option and press the **ENTER** button.

Result: The main picture and the sub picture are interchanged.

- 9 Press the **▲** or **▼** button to select the **Size**.



Press the **ENTER** button.

Select the size of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER** button.

Result: The sizes are displayed in the following order:

Small - Double1 - Double2

Viewing the Picture In Picture (PIP)

- 10** Press the **▲** or **▼** button to select the **Position**.
Press the **ENTER**  button.
Select the position of the sub picture by pressing the **▲** or **▼** button and then press the **ENTER**  button.

Result: You can move the sub picture counterclockwise.

- ◆ When the size of sub picture is set to **Double1** or **Double2**, this feature does not work.

- 11** To return to normal viewing press the **EXIT** button.

➤ Remote-control functions while "PIP" is "On":

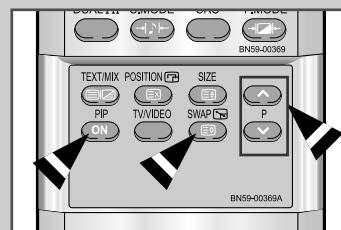
Features	Description
PIP ON	Used to operate the ON/OFF function of PIP directly.
SWAP	Used to interchange the main picture and the sub picture. ➤ When the main picture is in Video mode and the sub picture is in the set mode, you might not hear the sound of main picture when pressing the SWAP button after changing the sub picture channel. At this time, reselect the main picture channel.

^/v Used to select the channel of sub picture.

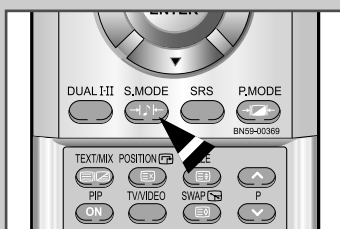
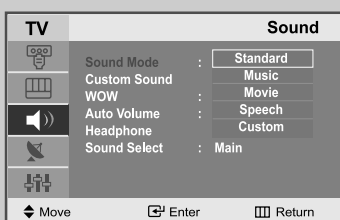
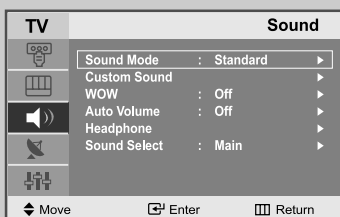
➤ PIP Settings

O : PIP operates
X : PIP does not operate

Sub Picture Main Picture	TV	AV1	AV2	AV3	S-Video	PC
TV	X	X	X	X	X	O
AV1	X	X	X	X	X	O
AV2	X	X	X	X	X	O
AV3	X	X	X	X	X	O
S-Video	X	X	X	X	X	O
PC	O	O	O	O	O	X



Changing the Sound Standard



You can select the type of special sound effect to be used when watching a given broadcast.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Sound**.

Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **ENTER** button.

Result: The **Sound Mode** is selected.

- 5 Select the required sound effect by pressing the **▲** or **▼** button repeatedly.
Press the **ENTER** button.

Result: The following sound effects are available:
Standard - Music - Movie - Speech - Custom

- You can also set these options simply by pressing the **S.MODE** (Sound Mode) button.

Adjusting the Custom Sound

The sound settings can be adjusted to suit your personal preferences.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the ▲ or ▼ button to select the **Sound**.

Result: The options available in the **Sound** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the ▲ or ▼ button to select the **Custom Sound**.
Press the **ENTER** button.

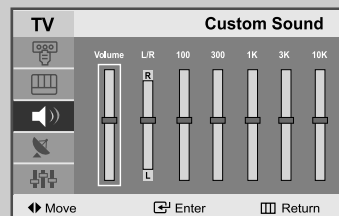
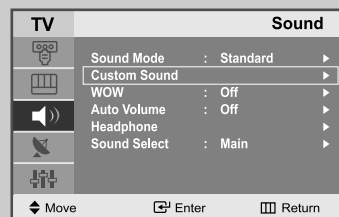
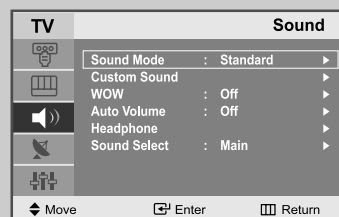
- 5 Select the option (**Volume, L/R, 100, 300, 1K, 3K, 10K**) to be adjusted by pressing the ◀ or ▶ button.
Press the **ENTER** button.

Result: The Vertical bar is displayed.

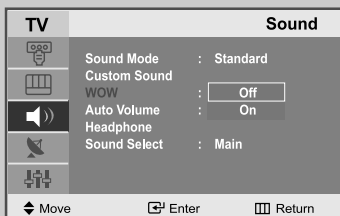
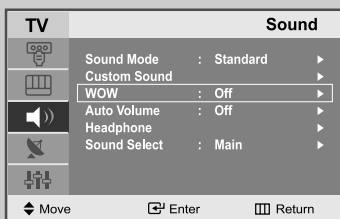
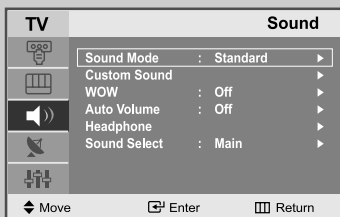
- 6 Press the ▲ or ▼ button to reach the required setting.

- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

➤ If you make any changes to these settings, the Sound standard is automatically switched to Custom.



Selecting WOW Surround



Select the Wow Surround feature to amplify the mid- to low-range sounds or create a surround sound effect.

- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select the **Sound**.

Result: The options available in the **Sound** group are displayed.




- 3 Press the **ENTER** [Enter] button.

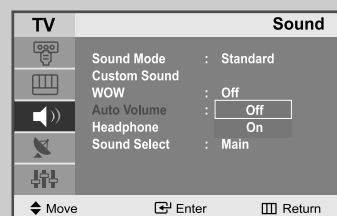
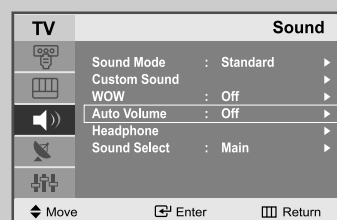
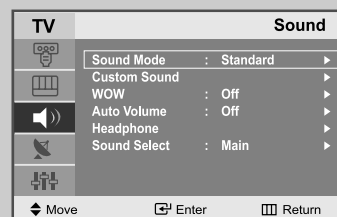
- 4 Press the **▲** or **▼** buttons to select **WOW**.
Press the **ENTER** [Enter] button.

- 5 Press the **▲** or **▼** button to select **Off/On**.
Press the **ENTER** [Enter] button.

Selecting Auto Volume Control

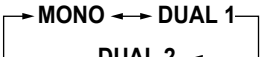
Reduces the differences in volume level between broadcasters.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Auto Volume**.
Press the **ENTER**  button.
- 5 Press the **▲** or **▼** button to select **Off/On**.
Press the **ENTER**  button.

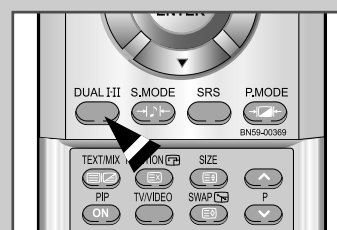


Selecting the Sound Mode

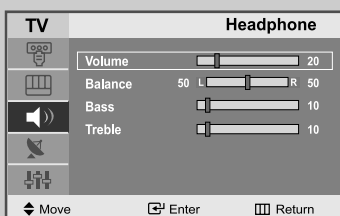
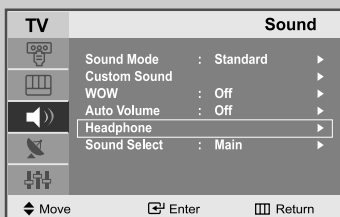
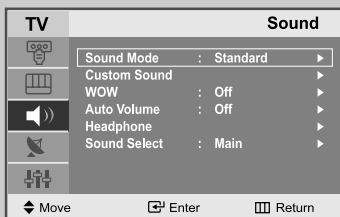
*You can set the sound mode by pressing the "DUAL I-II" button.
When you press it, current sound mode is displayed on the screen.*

	Audio Type	DUAL 1/2	Default
FM Stereo	Mono	MONO	Automatic change
	Stereo	STEREO ↔ MONO	
	Dual	DUAL 1 ↔ DUAL 2	DUAL 1
	Mono	MONO	Automatic change
NICAM Stereo	Stereo	MONO ↔ STEREO	
	Dual		DUAL 1

-
- ◆ If the receiving conditions deteriorate, listening will be easier if the mode is set to **Mono**.
 - ◆ If the stereo signal is weak and automatic switching occurs, switch to **Mono**.



Adjusting Your Headphone Preferences






*You can adjust the headphone settings to suit your preferences.
The following headphones settings are available:*

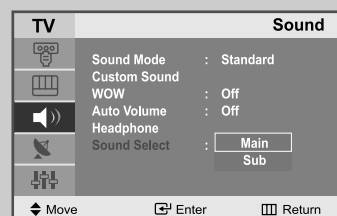
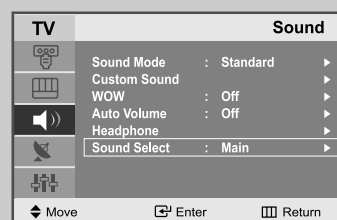
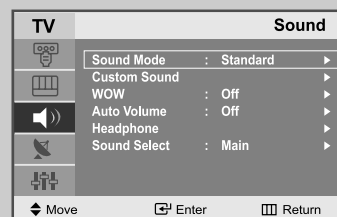
◆ **Volume, Balance, Bass, Treble.**

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select **Headphone**.
Press the **ENTER** button.
- 5 Select the option (**Volume, Balance, Bass, Treble**) to be adjusted by pressing the **▲** or **▼** button.
Press the **ENTER** button.
Result: The horizontal bar is displayed.
- 6 Press the **◀** or **▶** button to reach the required setting.
- 7 When you are satisfied with the setting, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

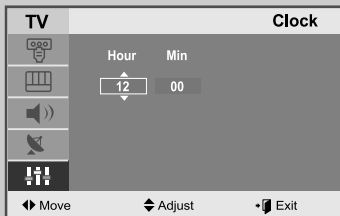
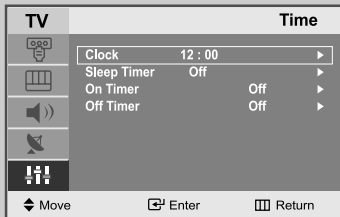
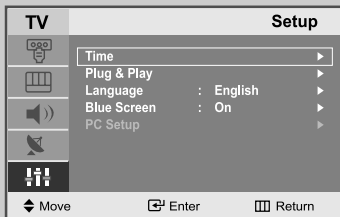
Selecting a Sound Mode for the Sub-Screen

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select the **Sound**.
Result: The options available in the **Sound** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Sound Select**.
Press the **ENTER**  button.
- 5 Press the **▲** or **▼** button to select **Main/Sub**.
Press the **ENTER**  button.

➤ You can use the sub-screen sound mode feature only when the PIP feature is ON.



Setting the Clock



- 1 Press the **MENU** button.

Result: The main menu is displayed.

- 2 Press the **▲** or **▼** button to select **Setup**.

Result: The options available in the **Setup** group are displayed.

- 3 Press the **ENTER** button.

- 4 Press the **ENTER** button.

Result: The **Time** is selected.

- 5 Press the **ENTER** button.
Press the **▲** or **▼** button to set the **Hour**.

- 6 Press the **◀** or **▶** button to move to **Min**.
Press the **▲** or **▼** button to set the minutes.



- 7 Press the **ENTER** button.

Result: The clock is set.

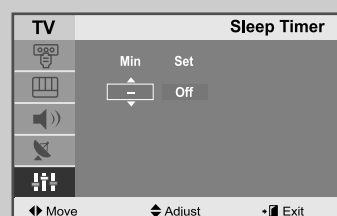
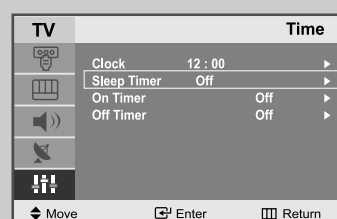
➤ You can also set the time using the numeric buttons on the remote.

Switching Off Automatically

You can select a time period of between -- and 180 minutes after which your set automatically switches off.

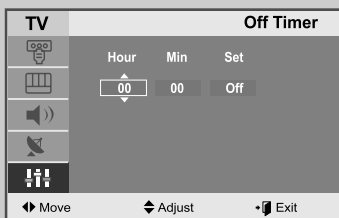
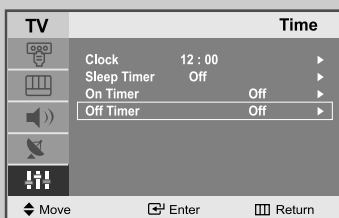
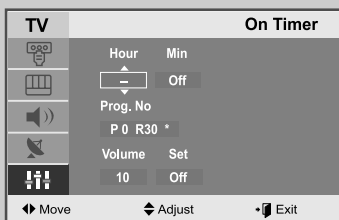
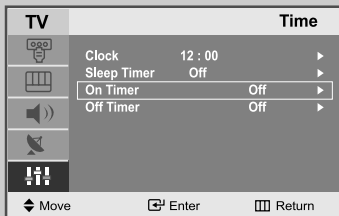
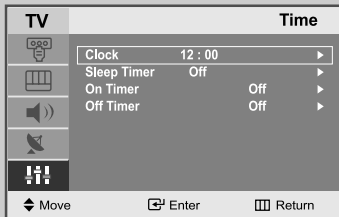
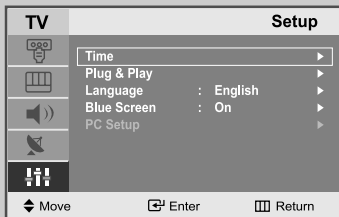
- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select the **Sleep Timer**.
Press the **ENTER**  button.
- 5 Select the number of minutes after which your set switches **On** by pressing the **▲** or **▼** button repeatedly.
Result: The preset time intervals:
- -, **30, 60, 90, 120, 150, 180** minutes.

- You can also select this feature by simply pressing the "**SLEEP**" button.
If the sleep timer is already set, the screen displays the remaining time and then your set will be switched **Off**.
If the sleep timer is not yet set, **Off** is displayed.
◆ Off • 30 • 60 • 90 • 120 • 150 • 180 • Off



30 Min

Switching the Television On and Off Automatically



You can set the On/Off timers so that the set will:

- ◆ Switch on automatically and tune to the channel of your choice at the time you select.
- ◆ Switch off automatically at the time you select.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **ENTER** button.
Result: The **Time** menu are displayed with **Clock** selected.
- 5 Press the **▲** or **▼** button to select the **On Timer**.
Press the **ENTER** button.
Result: The **On Timer** menu is displayed.

To...	Press the...
Move to Hour, Min, Prog. No and Volume	◀ or ▶ button
Set Hour, Min, Prog. No and Volume level	▲ or ▼ button
Move to Set	◀ or ▶ button
Select On to enable above setting	▲ or ▼ button



- 6 Press the **▲** or **▼** button to select **Off timer**.
In the same way, set the time at which you wish the set to be switched off automatically.

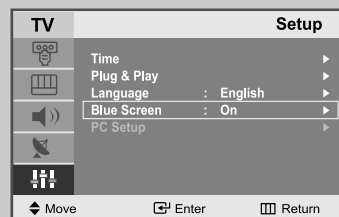
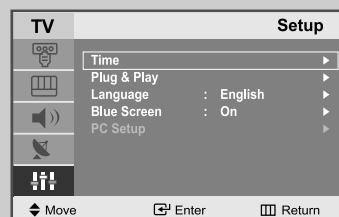
To display the...	Press the...
Current time and selected audio/video setting status	INFO button

Setting the Blue Screen Mode

If no signal is being received or the signal is very weak, a blue screen automatically replaces the noisy picture background.

If you wish to continue viewing the poor picture, you must set the "Blue Screen" mode to "Off".

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **Blue Screen**. Press the **ENTER**  button.
- 5 Select the required option (**On** or **Off**) by pressing the **▲** or **▼** button.
- 6 Press the **EXIT** button to return to normal viewing.



Displaying Information

You can view the setting status of the selected source by pressing the "INFO" button on the remote control.

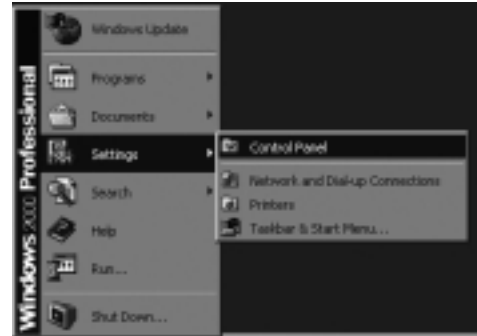
The information displayed varies according to the selected source.



Setting Up Your PC Software (Based on Windows 2000)

The Windows display-settings for a typical computer are shown below. The actual screens on your PC will probably be different, depending upon your particular version of Windows and your particular video card. However, even if your actual screens look different, the same basic set-up information will apply in almost all cases. (If not, contact your computer manufacturer or Samsung Dealer.)

- 1 First, click on **"Settings"** on the Windows start menu. While **"Settings"** is highlighted, move the cursor so that **"Control Panel"** is highlighted.



- 2 When the control panel window appears, click on **"Display"** and a display dialog-box will appear.



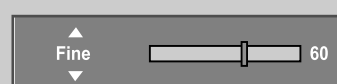
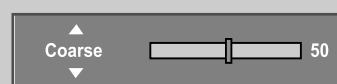
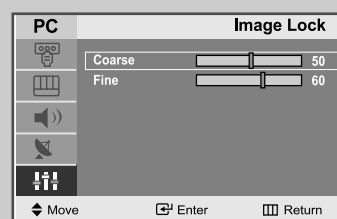
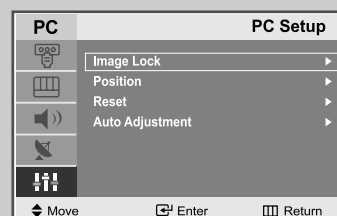
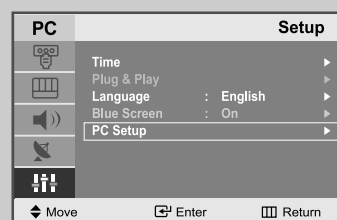
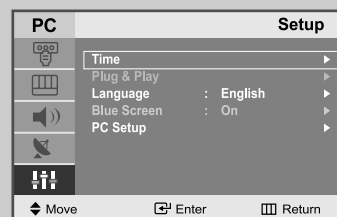
- 3 Navigate to the **"Settings"** tab on the display dialog-box. The correct size setting (resolution) - **1280 x 768 pixels**
If a vertical-frequency option exists on your display settings dialog box, the correct value is **"60"** or **"60 Hz"**. Otherwise, just click **"OK"** and exit the dialog box.



Coarse and Fine Tuning of the Image

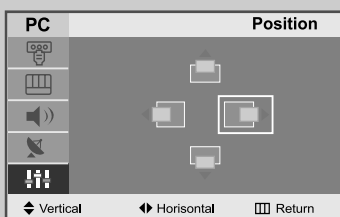
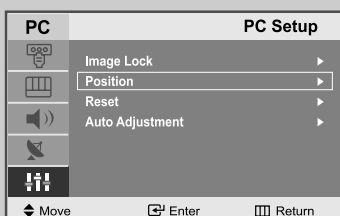
➤ Preset to PC mode by pressing the **PC** button.




- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the ▲ or ▼ button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the ▲ or ▼ button to select **PC Setup**.
Press the **ENTER** button.
Result: The options available in the **PC Setup** menu are displayed.
- 5 Press the **ENTER** button.
Result: The **Image Lock** menu is selected.
- 6 Press the ▲ or ▼ button to select **Coarse** or **Fine**.
Press the **ENTER** button.
Result: The horizontal bar is displayed.
- 7 Press the ◀ or ▶ button to adjust the screen quality.
Vertical stripes may appear or the picture may become blurry.
- 8 When you are satisfied with the settings, press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.



Changing the Image Position

➤ Preset to PC mode by pressing the **PC** button.







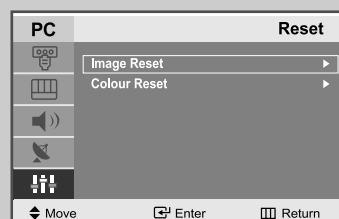
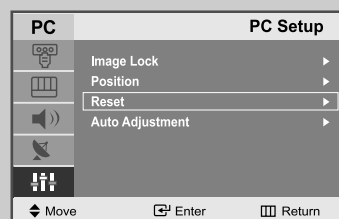
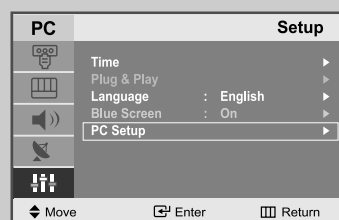
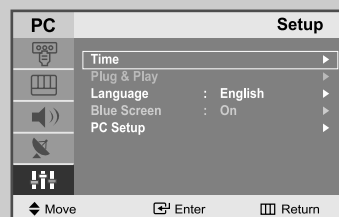
- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **PC Setup**.
Press **ENTER**  button.
Result: The options available in the **PC Setup** menu are displayed.
- 5 Press the **▲** or **▼** button to select **Position**.
Press the **ENTER**  button.
Result: You can adjust the image **Position**.
- 6 Press the **▲** or **▼** button to adjust the vertical position.
Press the **◀** or **▶** button to adjust the horizontal position.
- 7 Press the **MENU** button to return to the previous menu or press the **EXIT** button to return to normal viewing.

Initializing the Image Settings

➤ Preset to PC mode by pressing the **PC** button.

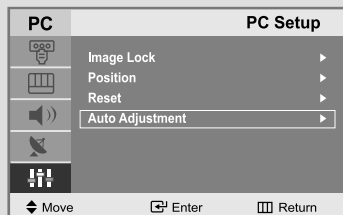
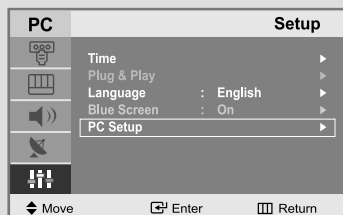
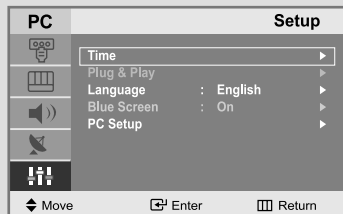
You can replace all image settings with the factory default values.

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER**  button.
- 4 Press the **▲** or **▼** button to select **PC Setup**.
Press **ENTER**  button.
Result: The options available in the **PC Setup** menu are displayed.
- 5 Press the **▲** or **▼** button to select **Reset**.
Press the **ENTER**  button.
- 6 Select the option (**Image Reset** or **Colour Reset**) to be replaced by pressing the **▲** or **▼** button.
Press the **ENTER**  button.
Result: The screen becomes black and returns to the original view a few seconds later.



Adjusting the PC Screen Automatically

➤ Preset to PC mode by pressing the **PC** button.



Auto Adjustment

- 1 Press the **MENU** button.
Result: The main menu is displayed.
- 2 Press the **▲** or **▼** button to select **Setup**.
Result: The options available in the **Setup** group are displayed.
- 3 Press the **ENTER** button.
- 4 Press the **▲** or **▼** button to select **PC Setup**.
Press **ENTER** button.
Result: The options available in the **PC Setup** menu are displayed.
- 5 Press the **▲** or **▼** button to select **Auto Adjustment**.
Press the **ENTER** button.
Result: The screen quality and position are automatically adjusted, and the screen returns to the original view a few seconds later.

Teletext Feature

Most television channels provide written information services via teletext.

Information provided includes:

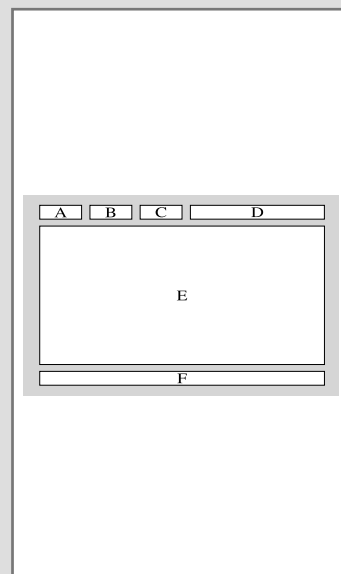
- ◆ *Television programme times*
- ◆ *News bulletins and weather forecasts*
- ◆ *Sports results*
- ◆ *Travel information*

This information is divided into numbered pages (see diagram).

Part	Contents
A	Selected page number.
B	Broadcasting channel identity.
C	Current page number or search indicators.
D	Date and time.
E	Text.
F	Status information. FASTEXT information.

➤ Teletext information is often divided between several pages displayed in sequence, which can be accessed by:

- ◆ Entering the page number
- ◆ Selecting a title in a list
- ◆ Selecting a coloured heading (FASTEXT system)



Displaying the Teletext Information



You can display Teletext information at any time on your set.

✎ For Teletext information to be displayed correctly, channel reception must be stable; otherwise:

- ◆ Information may be missing
- ◆ Some pages may not be displayed



- 1 Select the channel providing the Teletext service using the ▲ or ▼ button.
- 2 Press the **TEXT/MIX** button to activate the teletext mode.
Result: The contents page is displayed. It can be redisplayed at any time by pressing the [I] (index) button.
- 3 If you wish to display the actual broadcast at the same time as the teletext page, press the **TEXT/MIX** button again.
- 4 To return to normal viewing, press the [X] (cancel) button.
- 5 Press the **TV** button again to exit the teletext display.

Selecting a Page by Number







You can enter the page number directly by pressing the numeric buttons on the remote control.

- 1 Enter the three-digit page number given in the content by pressing the corresponding numeric buttons.

Result: The current page counter is incremented and the page is then displayed.

- 2 If the selected page is linked with several secondary pages, the secondary pages are displayed in sequence.
To freeze the display on a given page, press the  (hold) button. Press the  (hold) button again to resume.

Using the various display options:

To display...	Press the...
◆ Hidden text (answers to quiz games, for example)	 (reveal)
◆ The normal screen	 (reveal) again
◆ A secondary page, by entering its 4-digit number	 (subpage)
◆ The next page	 (page up)
◆ The previous page	 (page down)
◆ Double-size letters in the: <ul style="list-style-type: none"> • Upper half of the screen • Lower half of the screen 	 (size) <ul style="list-style-type: none"> • Once • Twice
◆ Normal screen	• Three times



Using FLOF to Select a Page






The various topics included in the teletext pages are colour-coded, and can be selected by pressing the coloured buttons on the remote control.

- 1 Display the teletext contents page by pressing the **TEXT/MIX** button.
- 2 Press the coloured button corresponding to the topic that you wish to select; the available topics are given on the status line.
Result: The page is displayed with other coloured information that can be selected in the same way.
- 3 To display the previous or next page, press the corresponding coloured button.
- 4 To display the subpage, see the following steps.
 - ◆ Press the (subpage) button.
 - Result: The available subpages appear.
 - ◆ Select the required subpage.
Subpages can be scrolled by using the or button.

Storing Teletext Pages

You can store up to four teletext pages to display them later at leisure.

- 1 Select the LIST mode using the  (LIST/FLOF) button.
Result: Four 3-digit numbers are displayed in different colours.
 ➤ The  (LIST/FLOF) button is used to switch between the LIST and FLOF modes.
- 2 Press the coloured button corresponding to the page that will be replaced.
- 3 Enter the new page number using the numeric buttons.
- 4 Repeat steps 2 and 3 for each page to be stored, using a different coloured button each time.
- 5 Press the  (store) button until the corresponding blocks blink.



Troubleshooting: Before Contacting Service Personnel

Before contacting Samsung after-sales service, perform the following simple checks.

If you cannot solve the problem using the instructions below, note the model and serial number of your set and contact your local dealer.

No sound or picture	<ul style="list-style-type: none"> ◆ Check that the mains lead has been connected to a wall socket. ◆ Check that you have pressed the POWER button. ◆ Check the picture contrast and brightness settings. ◆ Check the volume.
Normal picture but no sound	<ul style="list-style-type: none"> ◆ Check the volume. ◆ Check whether the MUTE button has been pressed on the remote control.
No picture or black and white picture	<ul style="list-style-type: none"> ◆ Adjust the colour settings. ◆ Check that the broadcast system selected is correct.
Sound and picture interference	<ul style="list-style-type: none"> ◆ Try to identify the electrical appliance that is affecting the set and move it further away. ◆ Plug your set into a different mains socket.
Blurred or snowy picture, distorted sound	<ul style="list-style-type: none"> ◆ Check the direction, location and connections of your aerial. This interference is often due to the use of an indoor aerial.
Remote control malfunctions	<ul style="list-style-type: none"> ◆ Replace the remote control batteries. ◆ Clean the upper edge of the remote control (transmission window). ◆ Check the battery terminals.
"Check Signal Cable" message is displayed.	<ul style="list-style-type: none"> ◆ Check that the signal cable is firmly connected to the PC or video sources. ◆ Check that the PC or video sources are turned on.
In PC mode, "Not Supported Mode" message is displayed.	<ul style="list-style-type: none"> ◆ Check the maximum resolution and the frequency of the video Adapter. ◆ Compare these values with the data in the Display Modes Timing Chart.
In PC mode, horizontal or vertical bars appear to flicker, jitter or shimmer on the image.	<ul style="list-style-type: none"> ◆ Adjust the Coarse or Fine function.
In PC mode, the screen is black and the power indicator light is steady amber or blinks every 0.5 or 1 seconds.	<ul style="list-style-type: none"> ◆ The TV is using its power management system. ◆ Move the computer's mouse or press a key on the keyboard.

Troubleshooting: Before Contacting Service Personnel

In PC mode, the image is not stable and may appear to vibrate.

- ◆ Check that the display resolution and frequency from your computer or video board is an available mode for your set. On your computer check: Control Panel, Display, Settings.
- ◆ If the setting is not correct, use your computer utility programme to change the display settings.

➤ Your set supports multiscan display functions within the following frequency domain:

Horizontal frequency - 30 ~ 68 kHz

Vertical frequency - 56 ~ 85 Hz

Maximum refresh rate - 1280 x 768 @ 60Hz

In PC mode, the image is not centred on the screen.

- ◆ Adjust the horizontal and vertical position.

PowerSaver

This set has a built-in power management system called PowerSaver. This system saves energy by switching your set into a low-power mode when it has not been used for a certain period of time. The available modes are "On", "Standby", "Sleep", and "Deep Sleep". PowerSaver operates with a VESA DPMS compliant video card installed in your computer. You use a software utility installed on your computer to set up this feature.

State	Normal Operation	Power-Saving Function mode (EPA/NUTEK)
Horizontal Sync	Active	Inactive
Vertical Sync	Active	Inactive
Power Indicator	Green	Green, Blinking (1 sec interval)
Power Consumption	52 W (Normal)	Less than 3 W

- *This set automatically returns to normal operation when horizontal and vertical sync are restored.
This occurs when you move the computer's mouse or press a key on the keyboard.*

Technical and Environmental Specifications

Model	LW17N23W
Panel	
Size	17" Diagonal
Display Size	370.56 (H) x 222.36 (V) mm
Type	a-si TFT active matrix
Pixel Pitch	0.2895 (H) x 0.2895 (V) mm
Viewing Angle	170/170 (Horizontal/Vertical)
Frequency	
Horizontal	30 ~ 68 kHz
Vertical	56 ~ 85 Hz
Display colour	16,777,216 colours
Display Resolution	
Maximum Mode	1280 x 768 @ 60 Hz
Input Signal	
Sync.	H/V Separate, TTL, P. or N.
Video Signal	0.7 Vp-p @ 75 ohm
Power Supply	
Input	AC 100 ~ 240 V (50 / 60 Hz)
Output	DC 14 V / 4.5 A
Power Consumption	
Normal	52 W
Power Saving	< 3 W
Dimensions (W x D x H) / Weight	
TV Body	18.26 x 3.45 x 13.60 inch / 9.7 lbs (463.8 x 87.7 x 345.0 mm / 4.4 kg)
With Stand	18.26 x 7.05 x 14.32 inch / 10.4 lbs (463.8 x 179.0 x 363.7 mm / 4.72 kg)
Environmental Considerations	
Operating Temperature	50 °F to 104 °F (10 °C to 40 °C)
Operating Humidity	10% to 80%
Storage Temperature	- 13 °F to 113 °F (-25 °C to 45 °C)
Storage Humidity	5% to 95%
Audio Characteristics	
Audio Input 1	RCA Jack (L, R), 0.5 Vrms (-9dB)
Audio Input 2 (PC)	3.5Ø Stereo Jack, 0.5 Vrms (-9dB)
Headphone Output	Max. 10 mW Output (3.5Ø Stereo Jack, 32Ω)
Frequency	RF: 80 Hz ~ 15 kHz (at- 3dB)
Response	A/V: 50 Hz ~ 15 kHz (at- 3dB)

Display Modes

*If the signal from the system equals the standard signal mode, the screen is adjusted automatically.
If the signal from the system does not equal the standard signal mode, adjust the mode with reference to the Video card user guide, as the screen may not display or only the power LED may be on.
For the display modes listed below, the screen image has been optimised during manufacture.*

Mode	Resolution	Horizontal Frequency (kHz)	Vertical Frequency (Hz)	Pixel Clock Frequency (MHz)	Sync Polarity (H/V)
Macintosh	640 X 480	35.000	66.667	30.240	- / -
	832 X 624	49.726	74.551	49.500	+ / +
IBM	640 X 480	31.496	59.940	25.175	- / -
	720 X 400	31.469	70.087	28.322	- / -
VESA	640 X 480	37.861	72.809	31.500	- / -
	640 X 480	37.500	75.000	31.500	- / -
	640 X 480	43.269	85.008	36.000	- / -
	800 X 600	35.156	56.250	36.000	+ / -
	800 X 600	37.879	60.317	40.000	+ / +
	800 X 600	48.077	72.188	50.000	+ / +
	800 X 600	46.875	75.000	49.500	+ / +
	800 X 600	53.674	85.061	56.250	- / -
	1024 X 768	48.363	60.004	65.000	- / -
	1024 X 768	56.476	70.069	75.000	- / -
	1024 X 768	60.023	75.029	78.750	+ / +
	1024 X 768	68.677	84.997	94.500	+ / +
GTF	1280 X 768	47.700	60.000	80.136	- / +

Maintenance of Your Television

To avoid risk of electric shock, do not disassemble the TV cabinet.

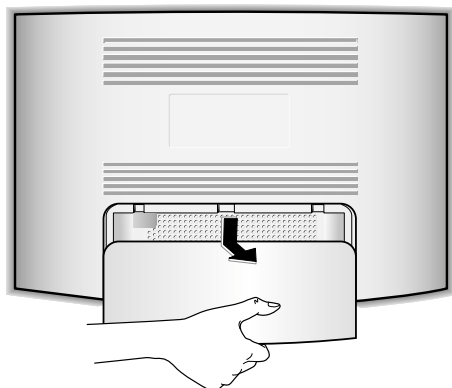
Users must not service the TV.

User maintenance is restricted to cleaning, as explained below:

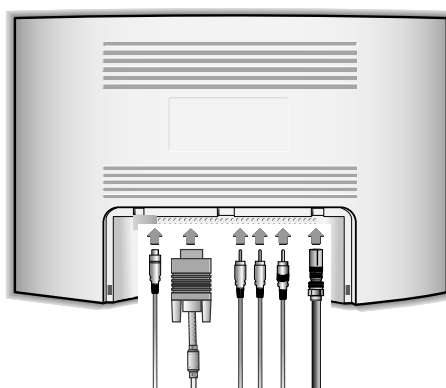
Unplug the television from the power outlet before cleaning.

- ◆ When you clean the TFT-LCD and the external panel, please apply the recommended small amount of cleaner, using a soft, dry cloth to polish it.
Do not force your television screen, scrubbing it only softly.
The use of excessive force can result in stains on the screen.
- ◆ Never use flammable cleaning material to clean your television or any other electrical apparatus.

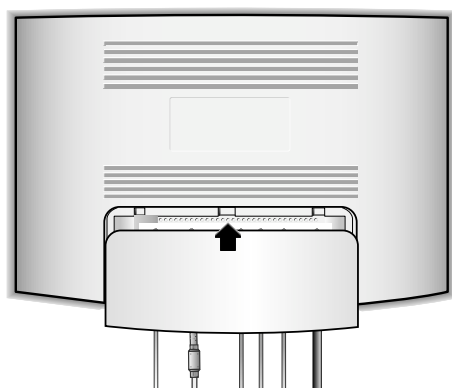
How to connect the cables and stand base



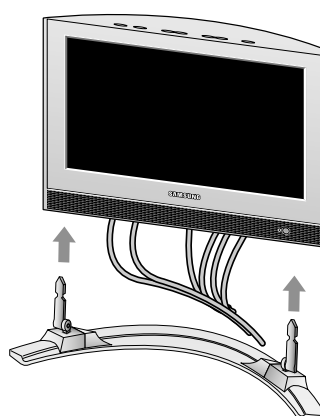
- 1** Remove the cover as shown in the picture.



- 2** Connect the cables as shown in the picture.

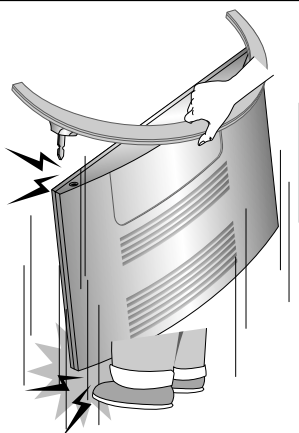


- 3** Replace the cover.



- 4** Attach the stand to the TV set as shown in the picture.

Note : The curved side of the stand base should be placed at the back of the TV set as shown in the above figure.

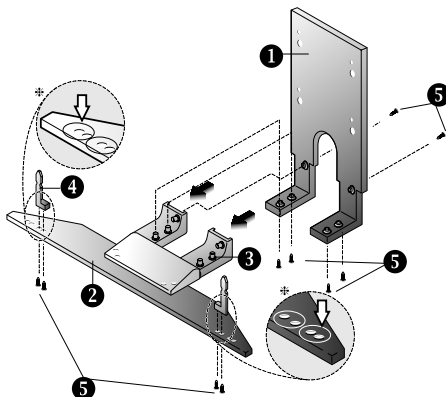


Do NOT lift the TV set by the stand.
The stand is not screwed to the TV set and
lifting the set by the stand may cause injury.

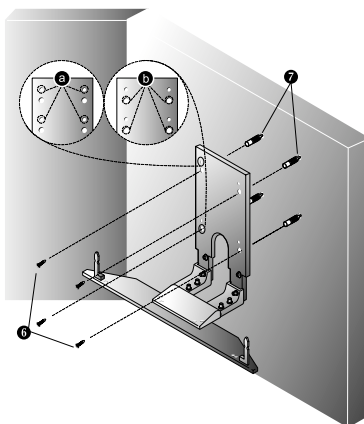
Installing the Wall Mount Kit (Sold separately)

*This installation is to be used when attaching the wall mount to a concrete wall.
When attaching to other building materials, please contact your nearest dealer.*

- 1 Connect the hinge to the wall mount bracket.



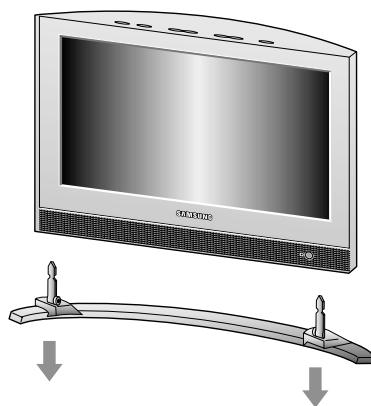
- 2 Secure the bracket to the wall.



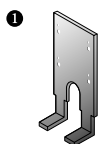
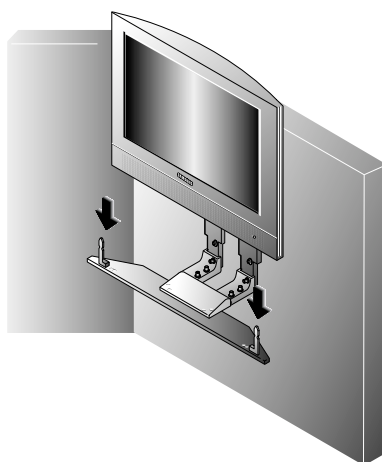
Use (a) holes to attach the VESA mount.
Use (b) holes to attach the wall mount.

Installing the Wall Mount Kit (Sold separately)

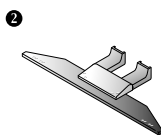
- 3** Remove the base from the TV set.



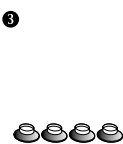
- 4** Mount the TV on the wall mount bracket.



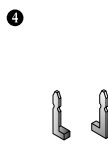
Holder-Wall : 1EA



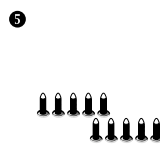
Holder-Ass'y : 1EA



Rubber : 4EA



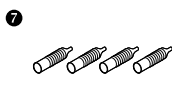
Holder-LCD L/R : 2EA



Screw FH 4 x 8 : 10EA



Screw BH 4 x 25 : 4EA



Anchor : 4EA

The wall mount bracket is sold separately.

Wiring the Mains Power Supply Plug (UK Only)

◆ **IMPORTANT NOTICE**

The mains lead on this equipment is supplied with a moulded plug incorporating a fuse. The value of the fuse is indicated on the pin face of the plug and, if it requires replacing, a fuse approved to BS11362 of the same rating must be used. Never use the plug with the fuse cover omitted if the cover is detachable.

If a replacement fuse cover is required, it must be of the same color as the pin face of the plug. Replacement covers are available from your dealer. If the fitted plug is not suitable for the power points in your house or the cable is not long enough to reach a power point, you should obtain a suitable safety approved extension lead or consult your dealer for assistance. However, if there is no alternative to cutting off the plug, remove the fuse and then safely dispose of the plug. Do NOT connect the plug to a mains socket as there is a risk of shock hazard from the bared flexible cord.

◆ **IMPORTANT**

The wires in the mains lead are colored in accordance with the following code:

BLUE - NEUTRAL BROWN - LIVE

As these colors may not correspond to the colored markings identifying the terminals in your plug, proceed as follows:

The wire colored BLUE must be connected to the terminal marked with the letter N or colored BLUE or BLACK.

The wire colored BROWN must be connected to the terminal marked with the letter L or colored BROWN or RED.

WARNING: DO NOT CONNECT EITHER WIRE TO THE EARTH TERMINAL, WHICH IS MARKED WITH THE LETTER E OR BY THE EARTH SYMBOL \perp , OR COLORED GREEN OR GREEN AND YELLOW.

Memo

- AFTER SALES SERVICE

- Do not hesitate to contact your retailer or service agent if a change in the performance of your product indicates that a faulty condition may be present.

